

INTERNATIONAL SEARCH REPORT

C115

International Application No

PCT/US 99/17877

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61M27/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61M A61F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 41 11 122 A (NEHER) 29 April 1993 (1993-04-29)	1-19
A	* THE WHOLE DOCUMENT *	20-42
X	GB 1 549 756 A (EVERETT ET AL.) 8 August 1979 (1979-08-08)	1
A	abstract; claims 1-6; figures 1-3	2-42
A	US 5 735 833 A (OLSON) 7 April 1998 (1998-04-07)	1-42
A	abstract; figures 1-5	
A	US 4 224 941 A (STIVALA) 30 September 1980 (1980-09-30)	1, 9, 10
	abstract; figures 1,2	
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☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

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"O" document referring to an oral disclosure, use, exhibition or other means

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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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"&" document member of the same patent family

Date of the actual completion of the international search

20 October 1999

Date of mailing of the international search report

27/10/1999

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 661 093 A (BECK ET AL.) 28 April 1987 (1987-04-28) ---	
A,P	EP 0 880 953 A (FLEISCHMANN) 2 December 1998 (1998-12-02) -----	

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 99/17877

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
DE 4111122 A	29-04-1993	DE 3935818 A	02-05-1991
GB 1549756 A	08-08-1979	CA 1127488 A	13-07-1982
		DE 2809828 A	21-09-1978
		FR 2382900 A	06-10-1978
		JP 1338799 C	29-09-1986
		JP 53113188 A	03-10-1978
		JP 61001148 B	14-01-1986
US 5735833 A	07-04-1998	NONE	
US 4224941 A	30-09-1980	NONE	
US 4661093 A	28-04-1987	DE 3321151 A	13-12-1984
		AT 36242 T	15-08-1988
		DE 3473229 A	15-09-1988
		EP 0128388 A	19-12-1984
		JP 1709724 C	11-11-1992
		JP 3075184 B	29-11-1991
		JP 60007851 A	16-01-1985
		JP 1838924 C	25-04-1994
		JP 4261670 A	17-09-1992
		JP 5029469 B	30-04-1993
		US 4792328 A	20-12-1988
		US 4936834 A	26-06-1990
EP 0880953 A	02-12-1998	DE 19722075 C	01-10-1998
		DE 29715634 U	06-11-1997